

FIG. 1

FIG. 2 (a)

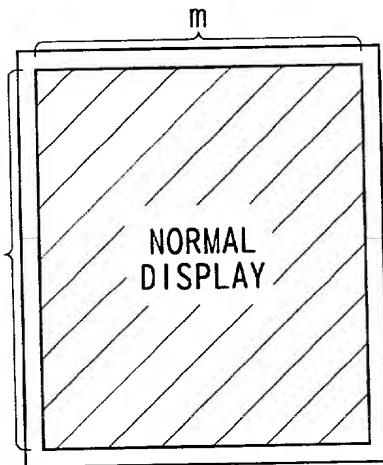


FIG. 2 (b)

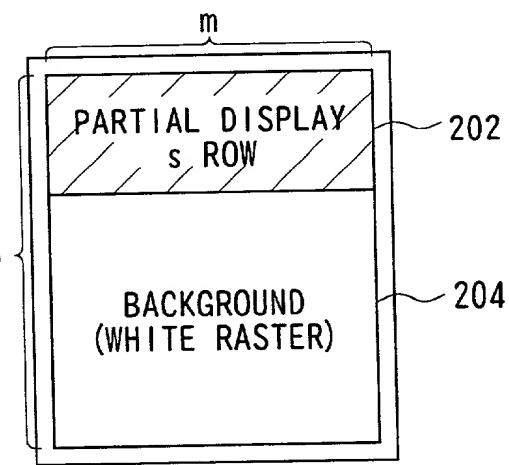
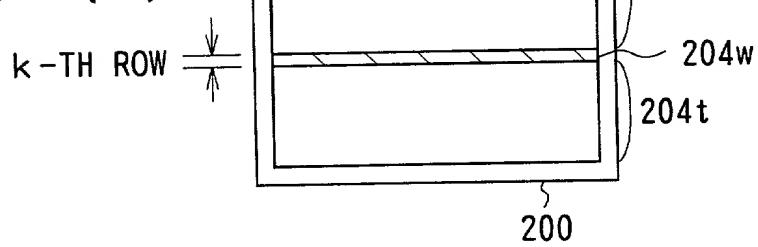
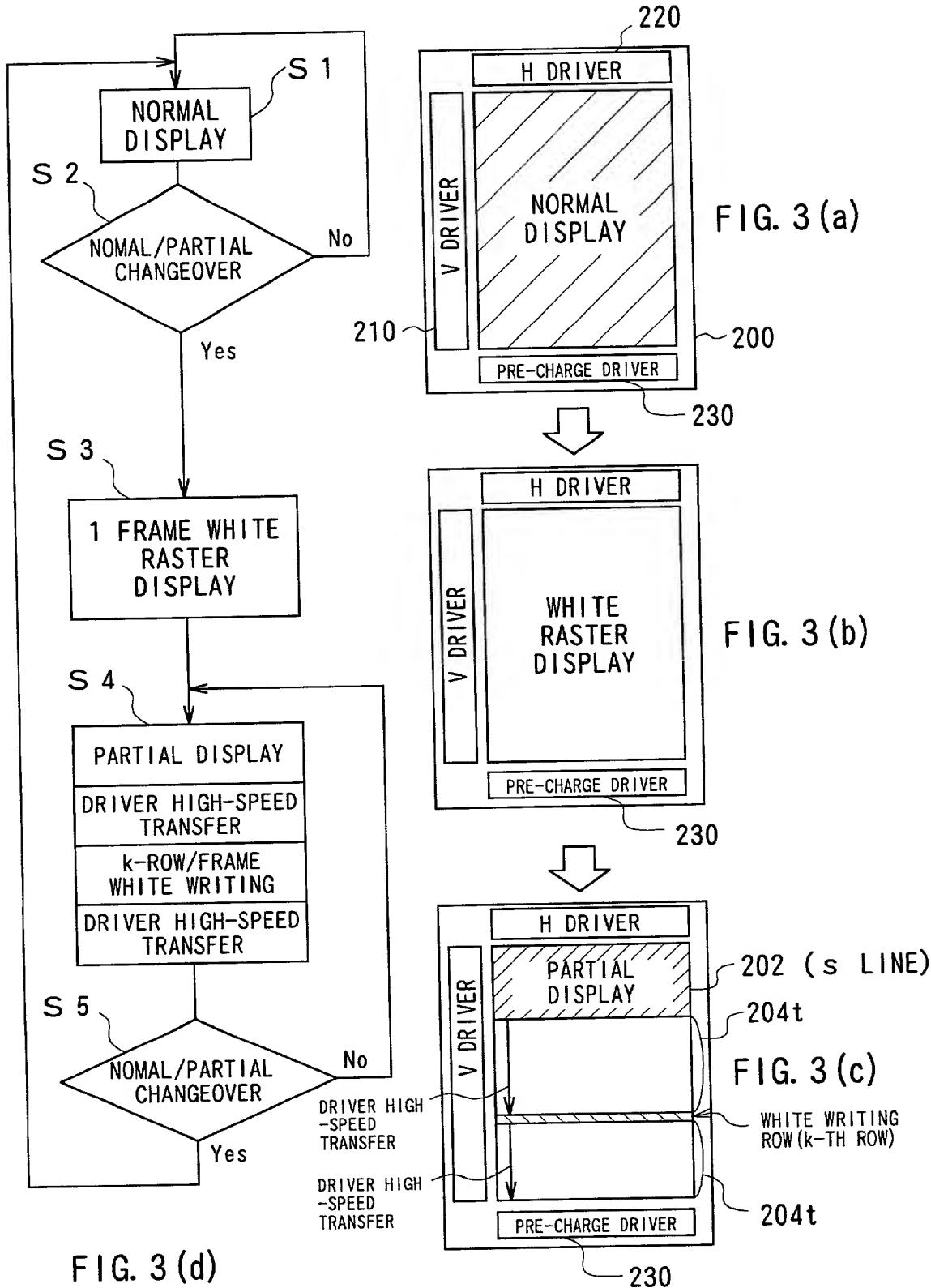


FIG. 2 (c)





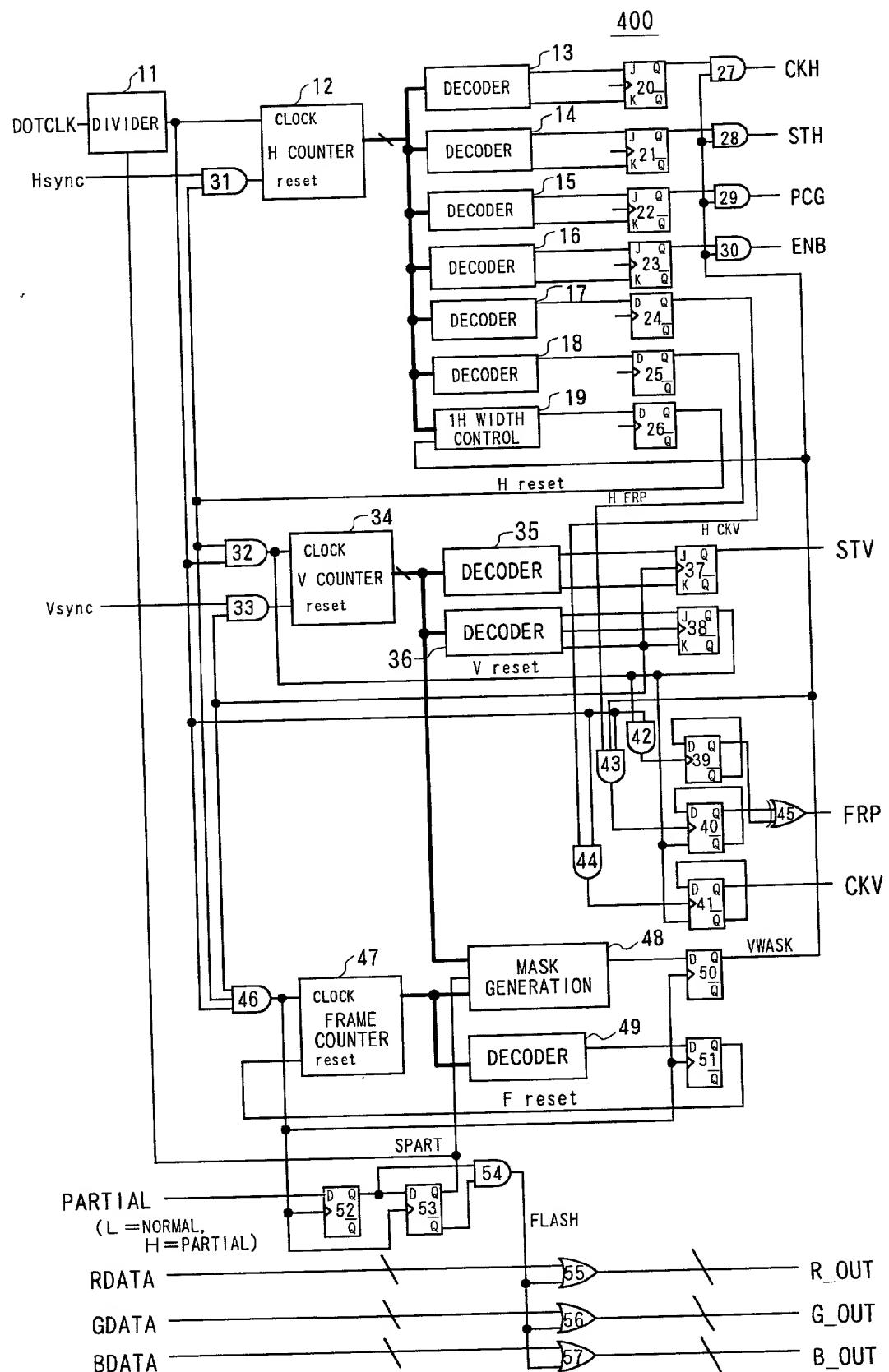


FIG. 4

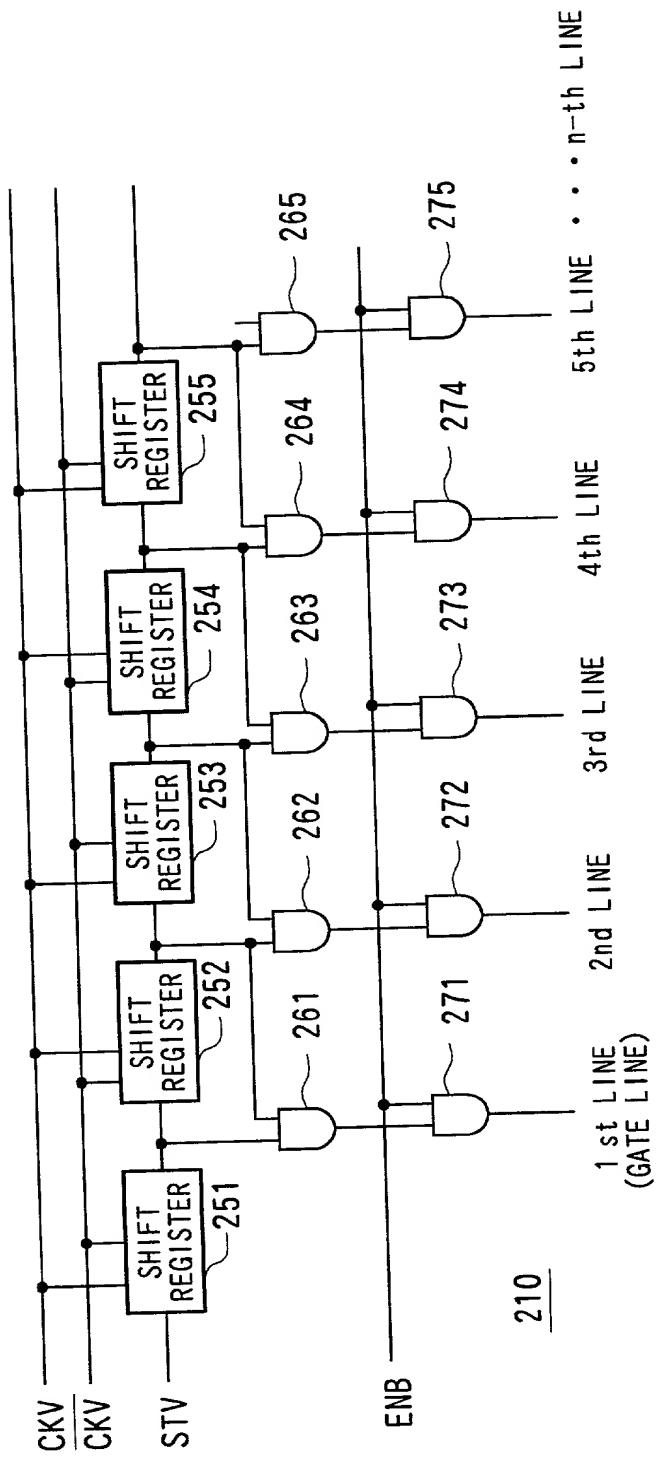


FIG. 5

## 11: FREQUENCY DIVIDER (DIVIDE-BY-FOUR CIRCUIT)

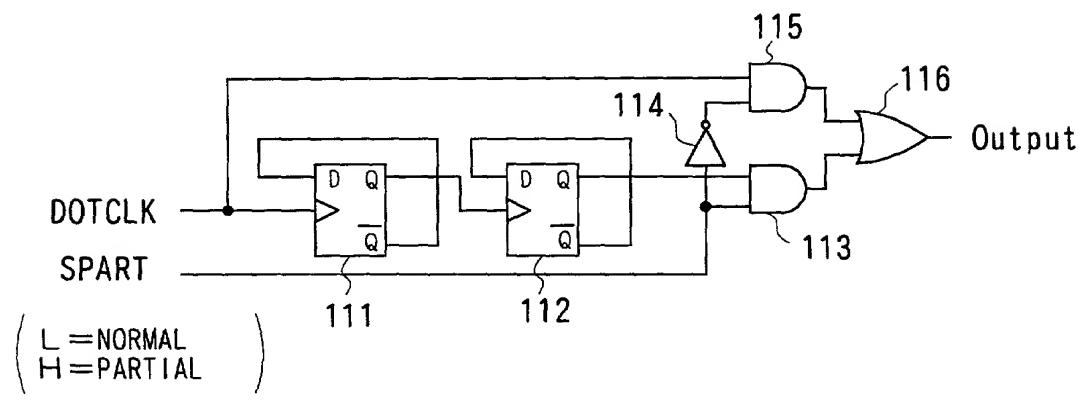


FIG. 6

### 19:1H WIDTH CONTROL CIRCUIT

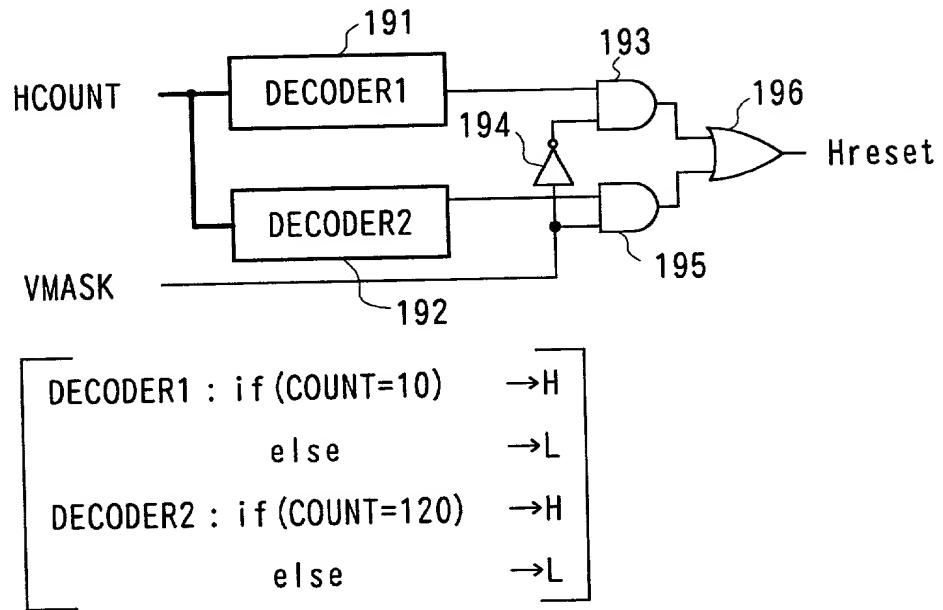


FIG. 7

48: MASK GENERATOR

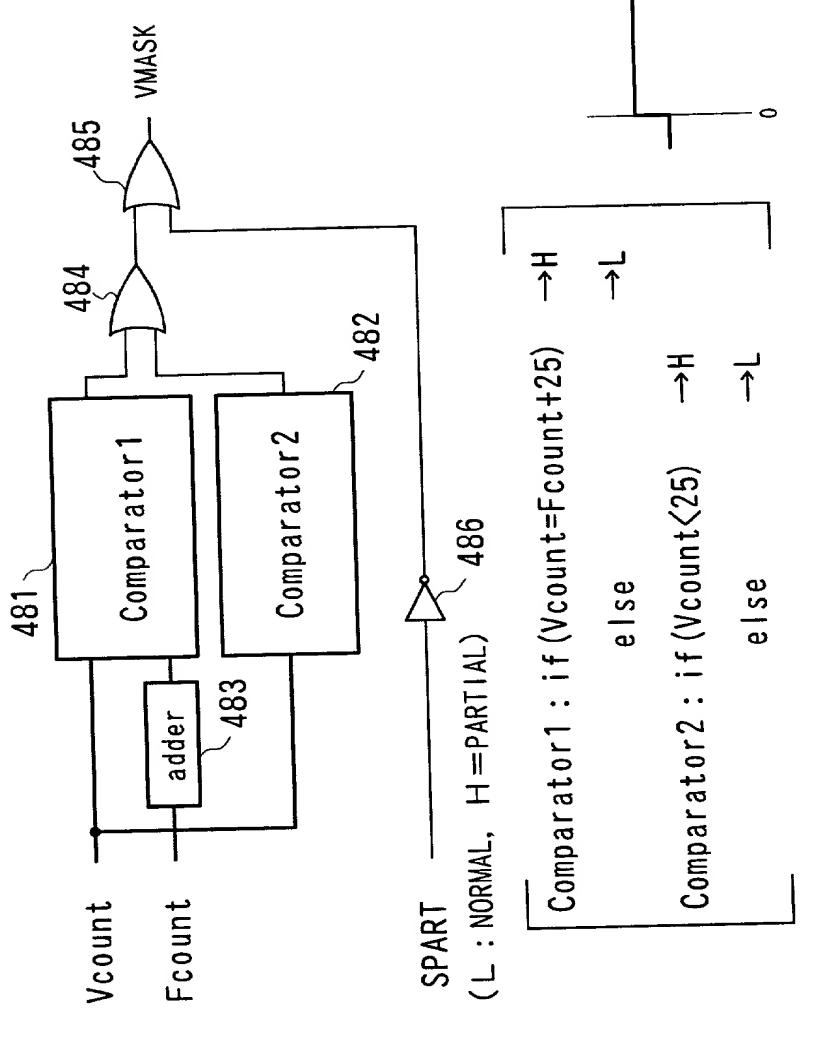
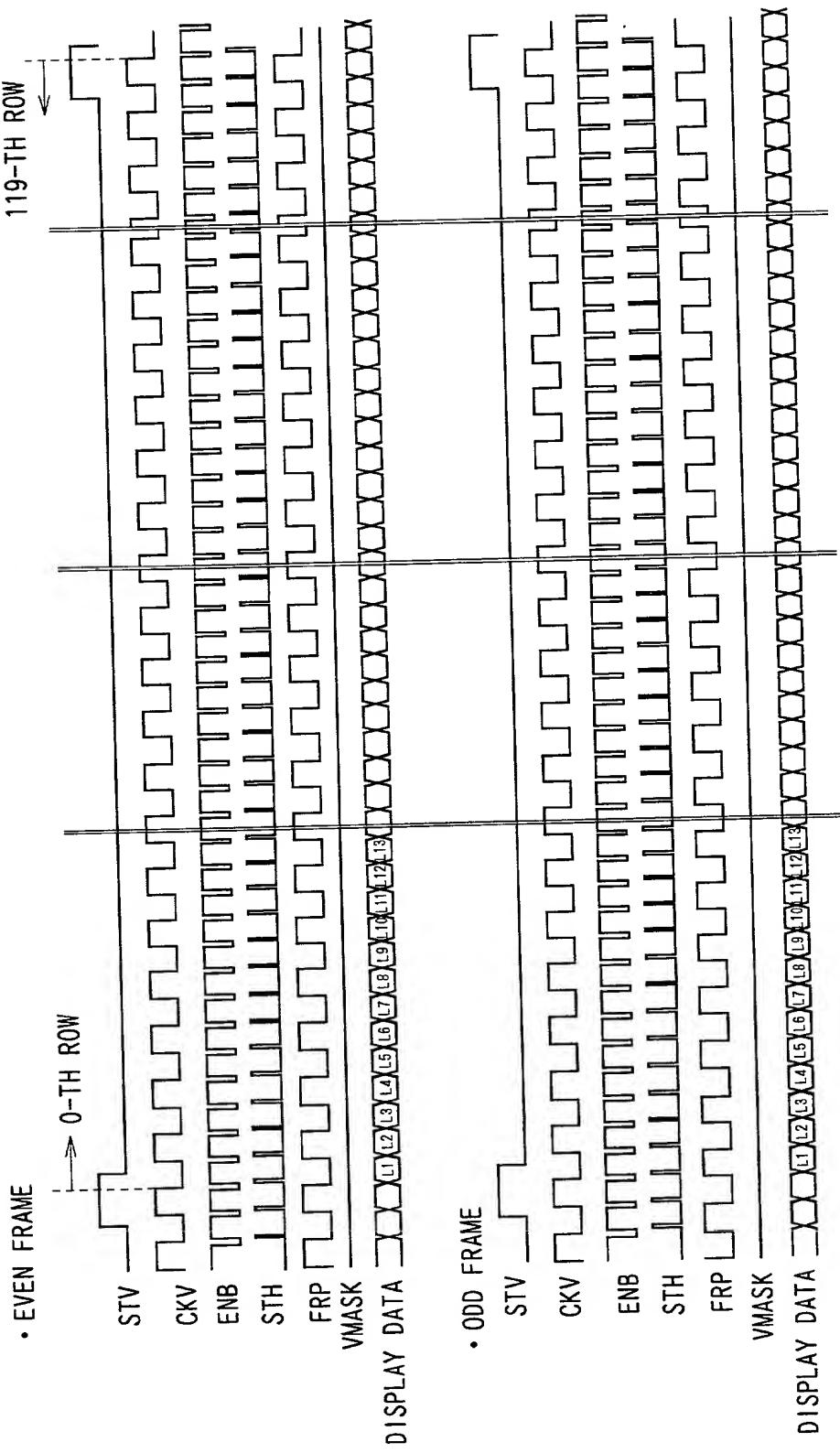
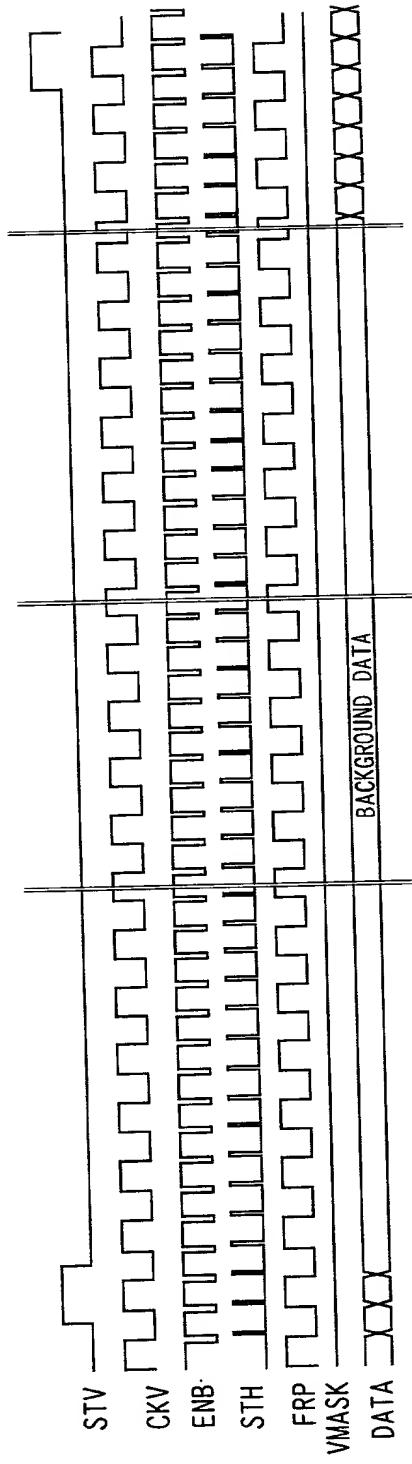


FIG. 8



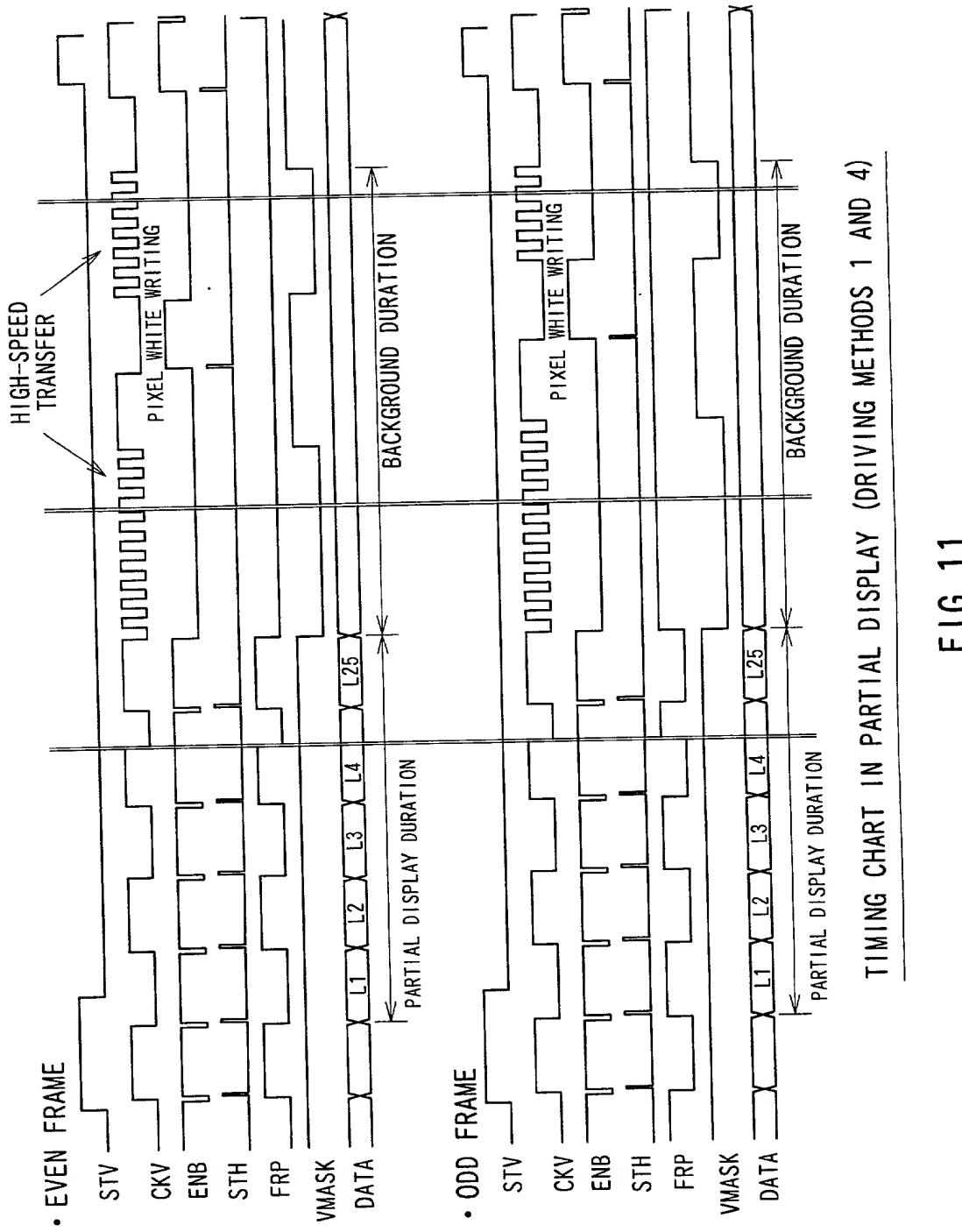
TIMING CHART IN NORMAL DISPLAY

FIG. 9



TIMING CHART IN BACKGROUND DISPLAY

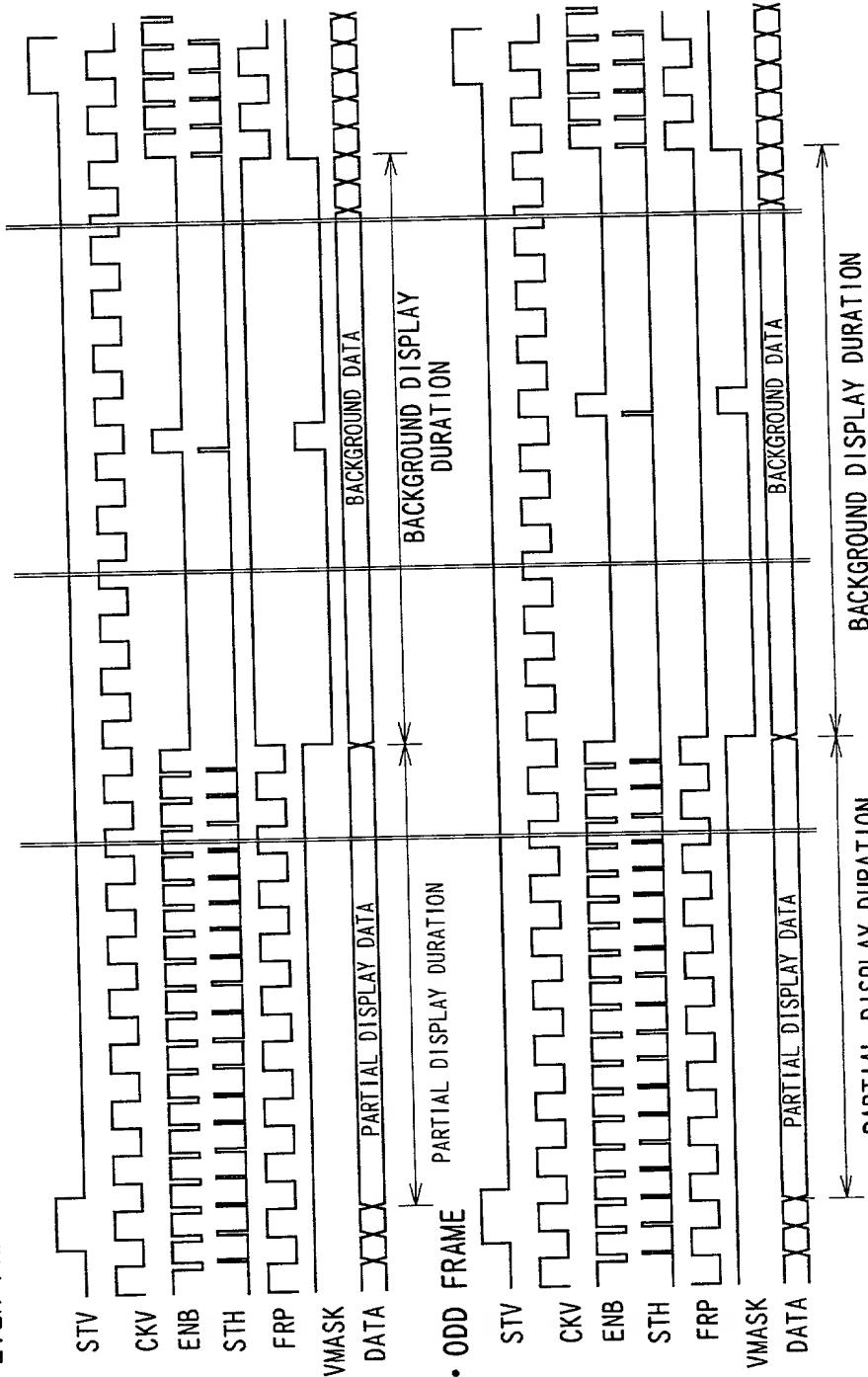
FIG. 10



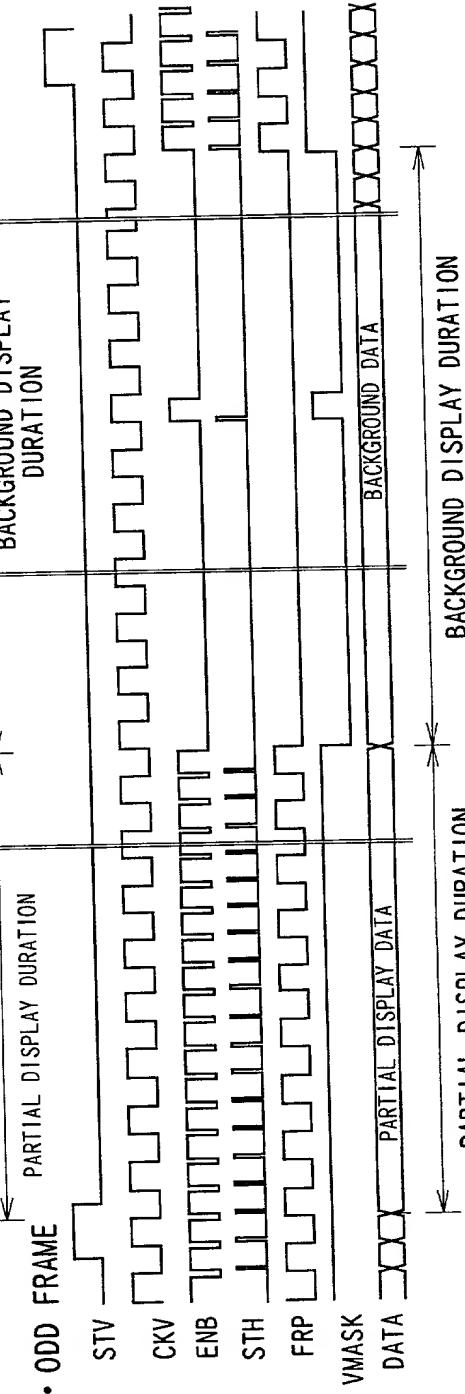
TIMING CHART IN PARTIAL DISPLAY (DRIVING METHODS 1 AND 4)

FIG. 11

• EVEN FRAME



• ODD FRAME



TIMING CHART IN PARTIAL DISPLAY (DRIVING METHOD 1)

FIG. 12

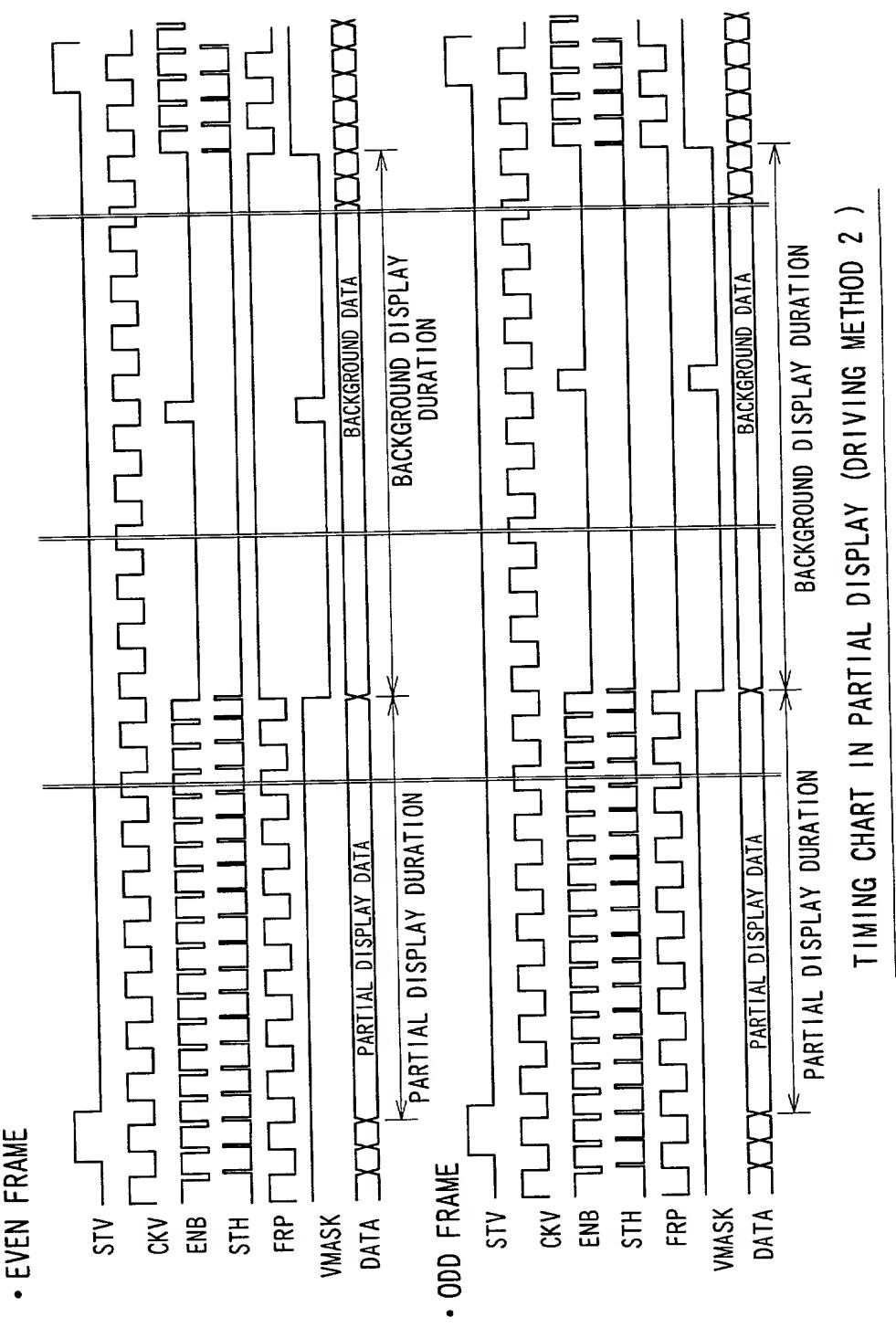
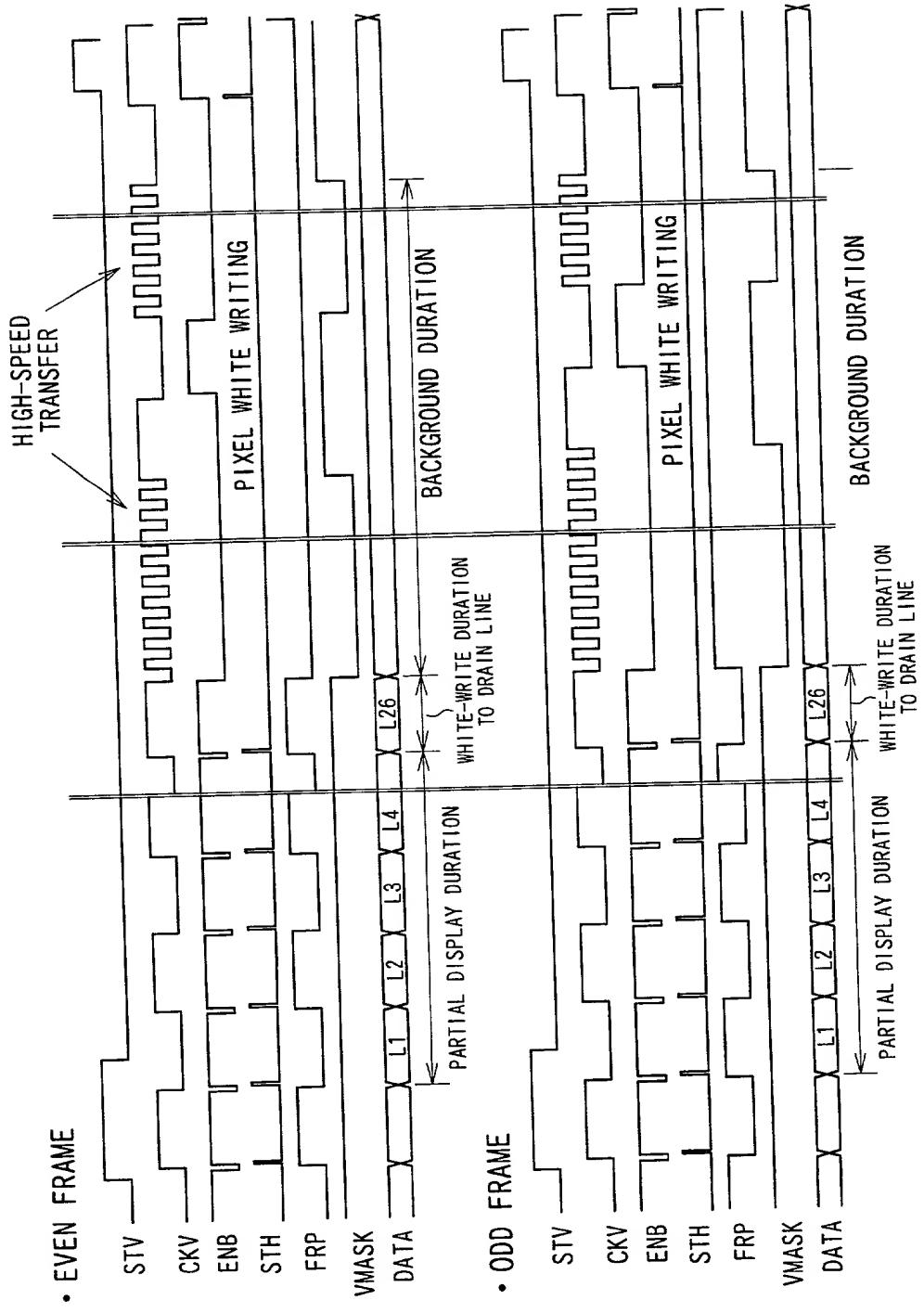
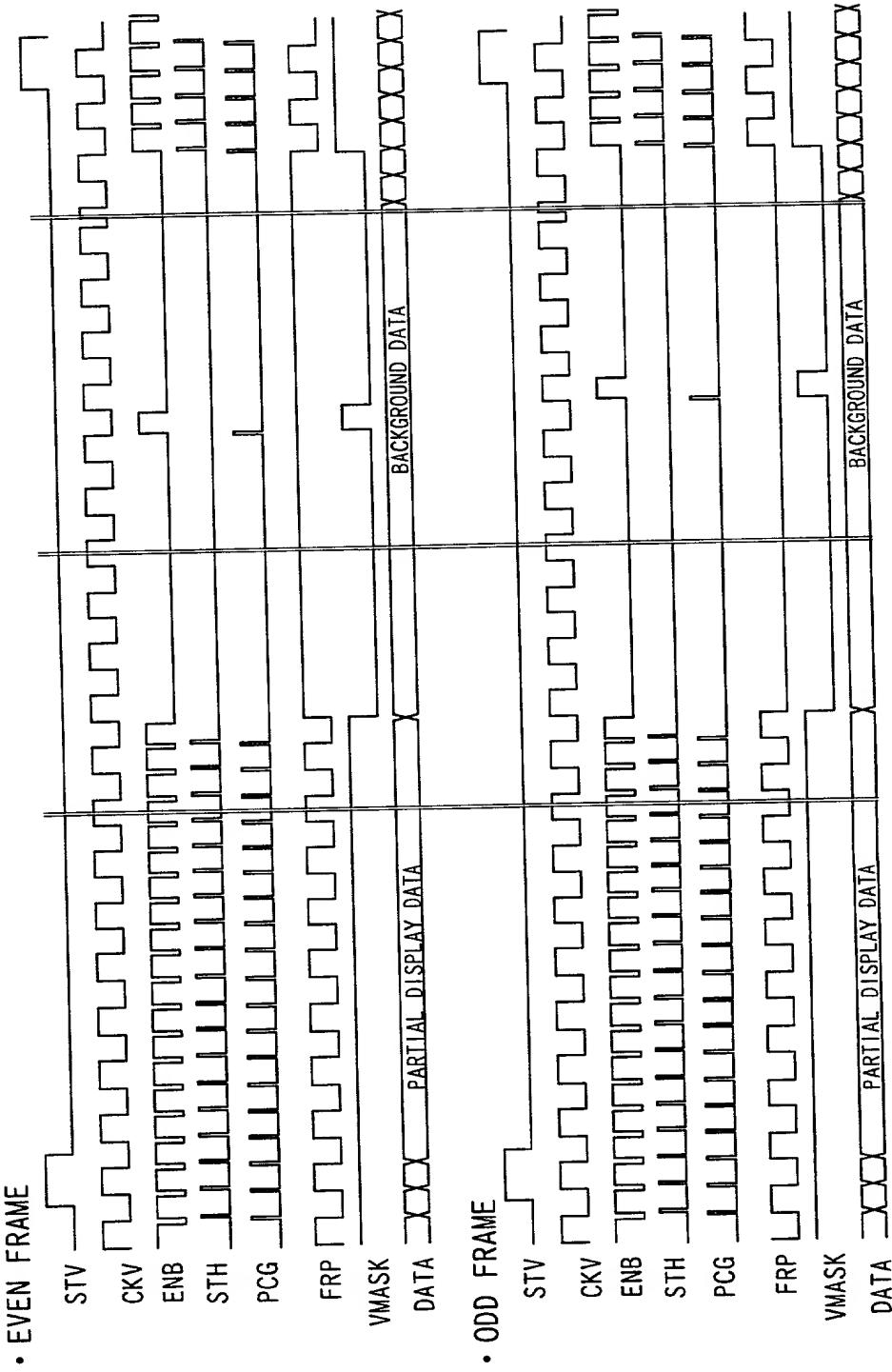


FIG. 13



TIMING CHART IN PARTIAL DISPLAY (DRIVING METHODS 2 AND 4)

FIG. 14



TIMING CHART IN PARTIAL DISPLAY (DRIVING METHOD 3 )

FIG. 15

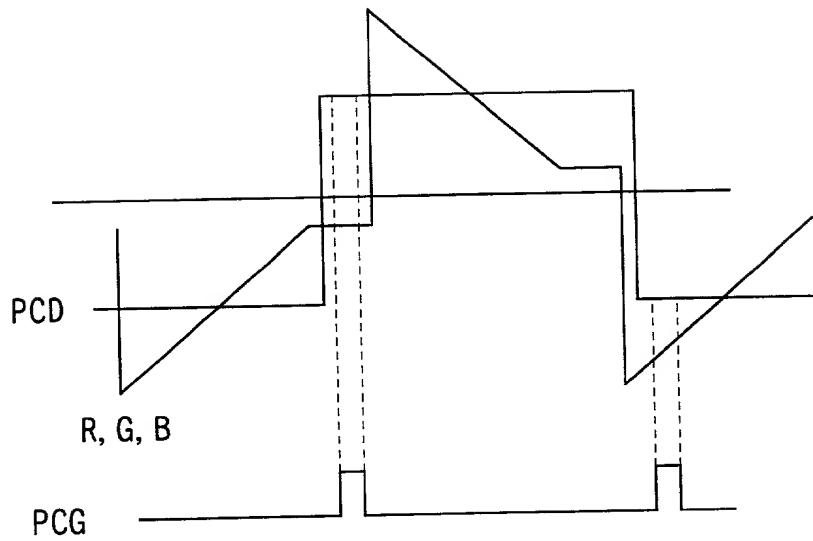
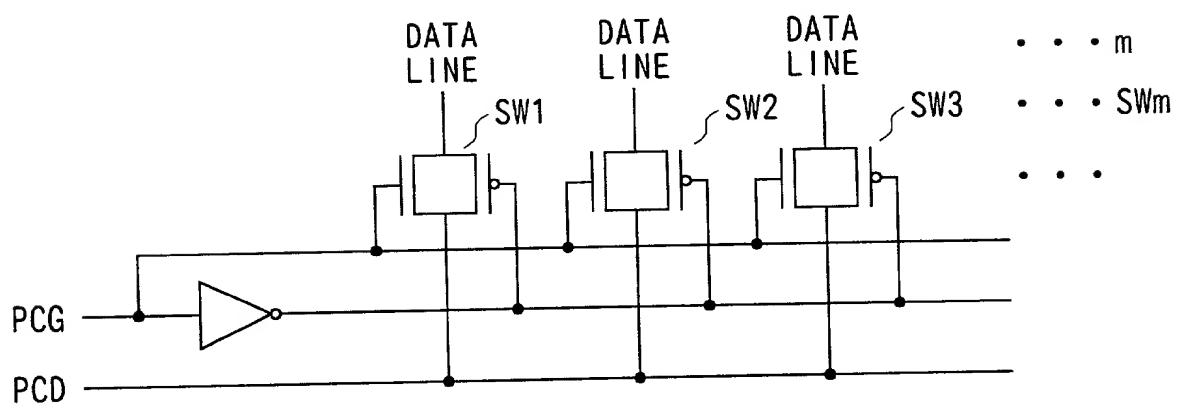
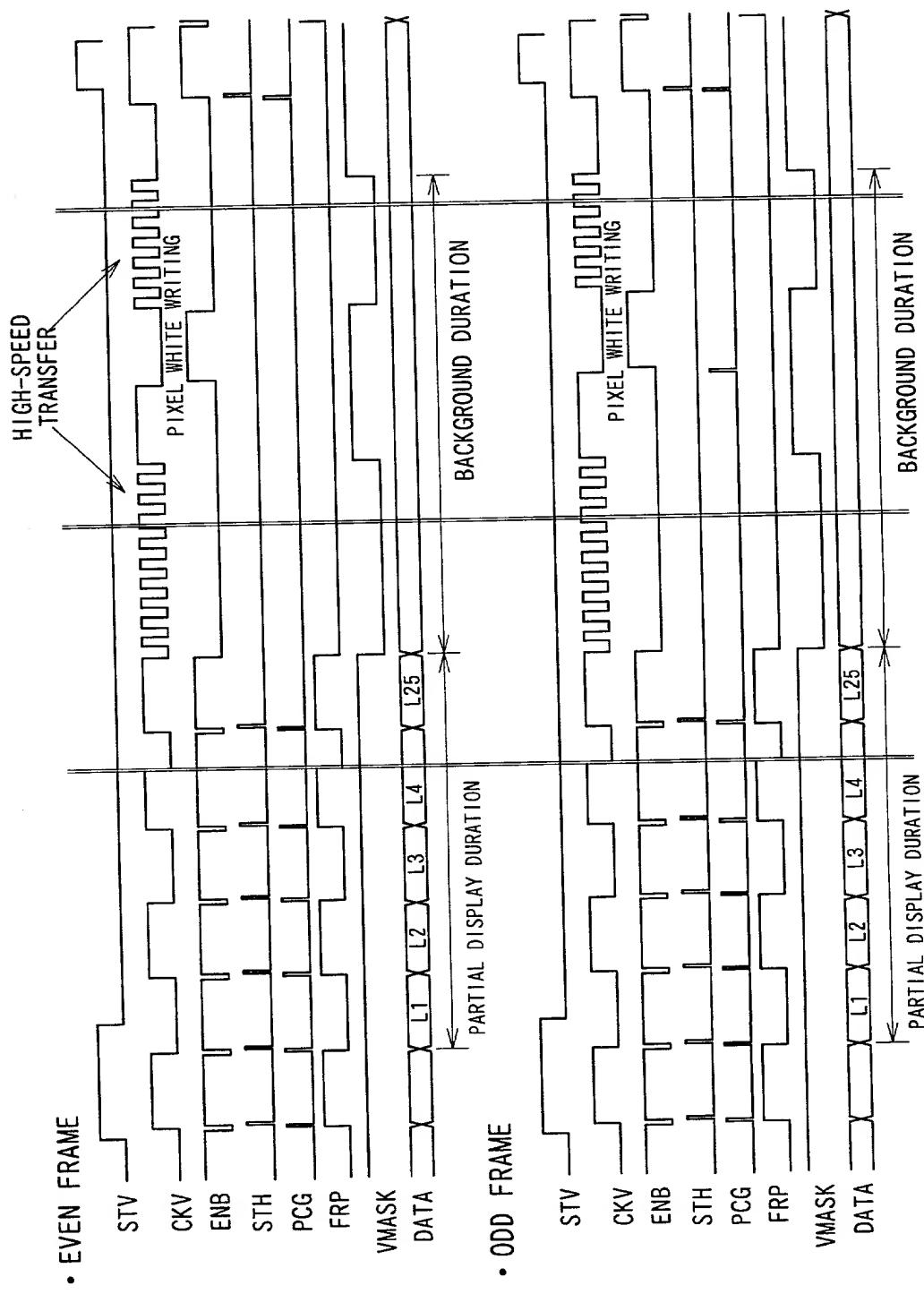


FIG. 16



230 : PRE-CHARGE DRIVER

FIG. 17



TIMING CHART IN PARTIAL DISPLAY (DRIVING METHODS 3 AND 4)

FIG. 18

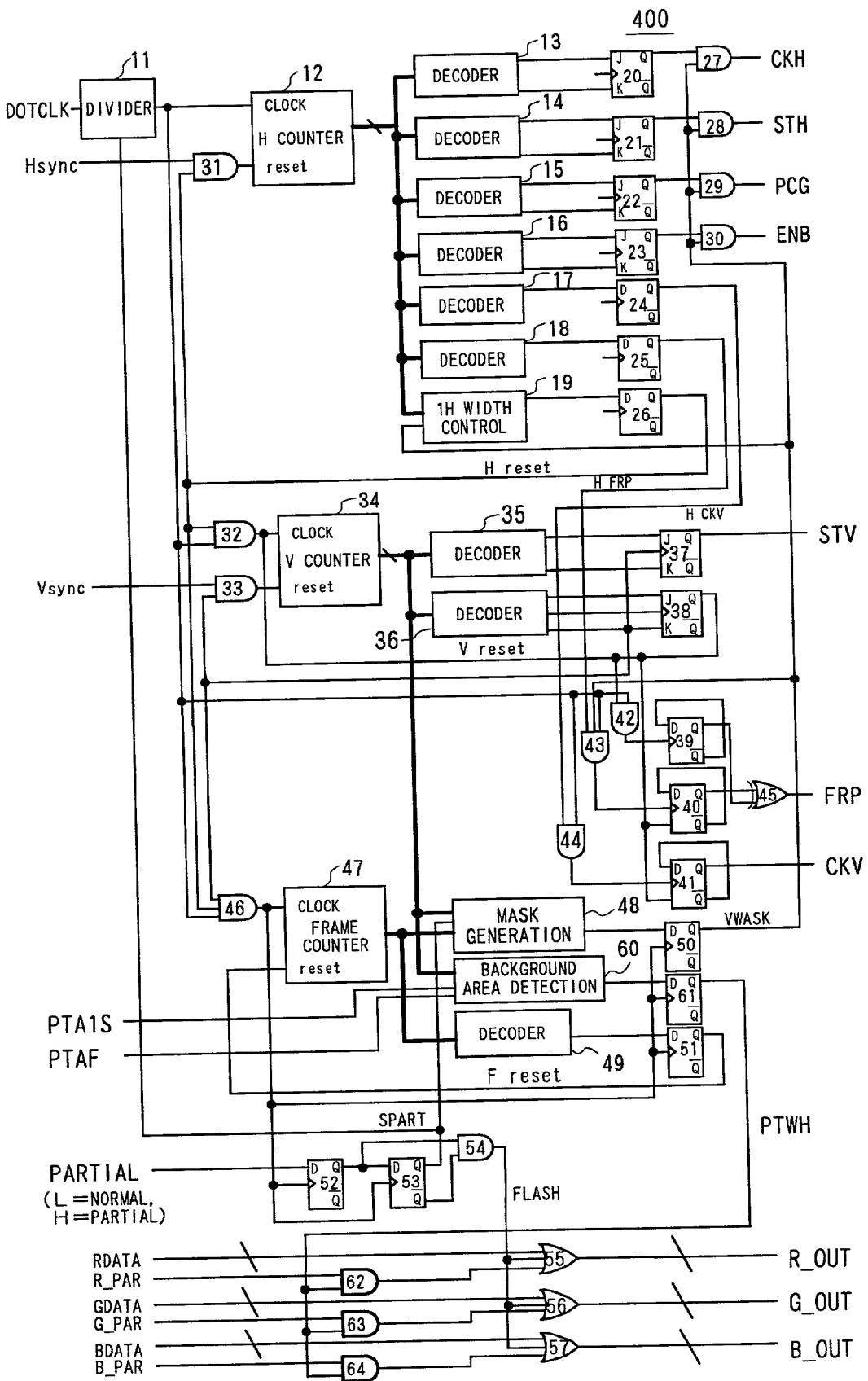


FIG. 19

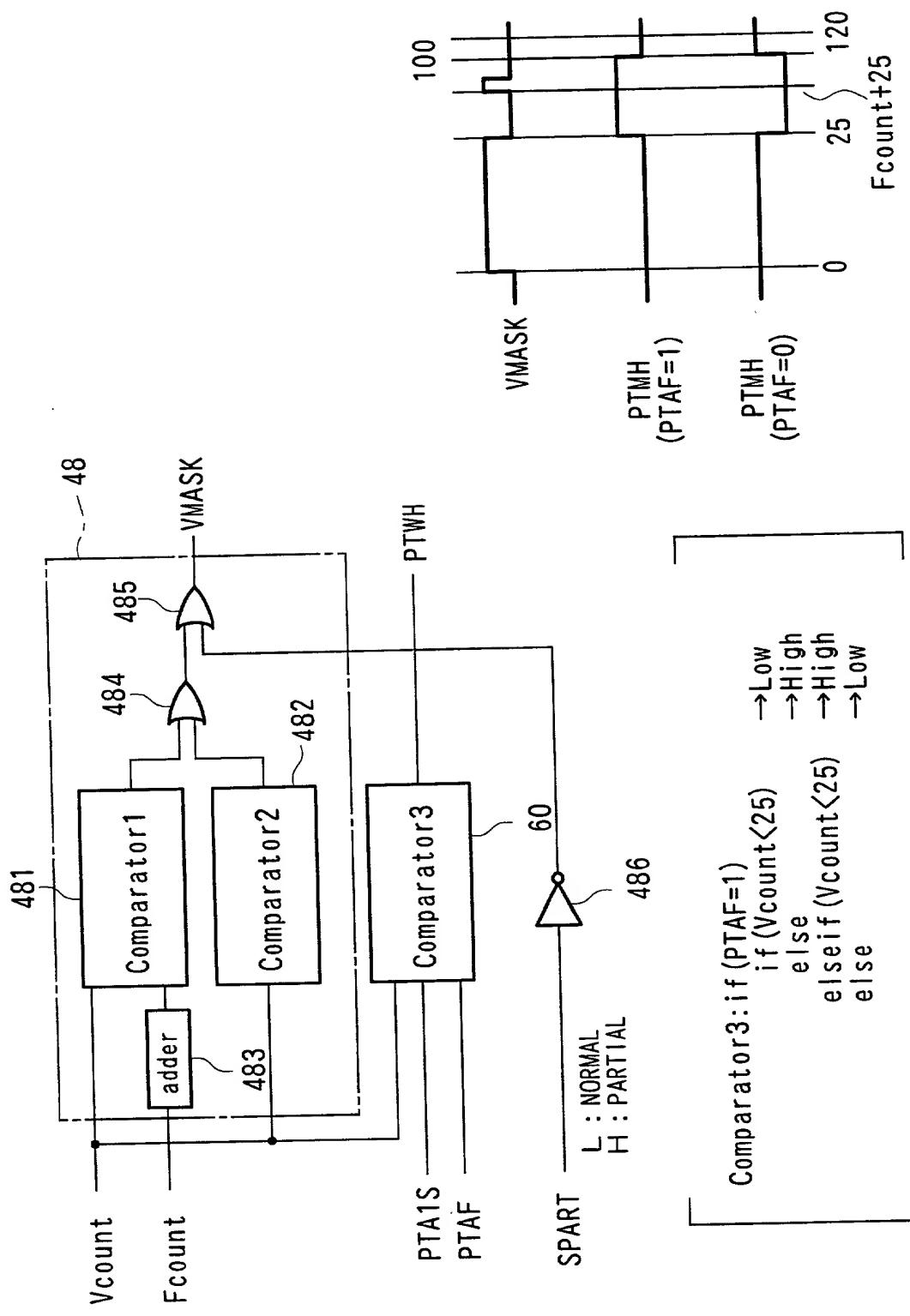


FIG. 20

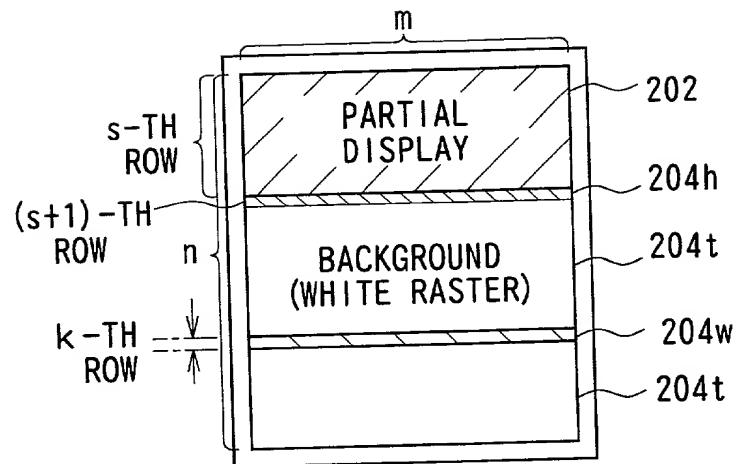


FIG. 21

Comparator1:if (Vcount=fcount+25+1) → High  
else → Low

Comparator2:if (Vcount<25+1) → High  
else → Low

Comparator3:if (PTAF=1)  
    if (Vcount<25+1) → Low  
    else → High  
    elseif (Vcount<25) → High  
    else → Low

FIG. 22

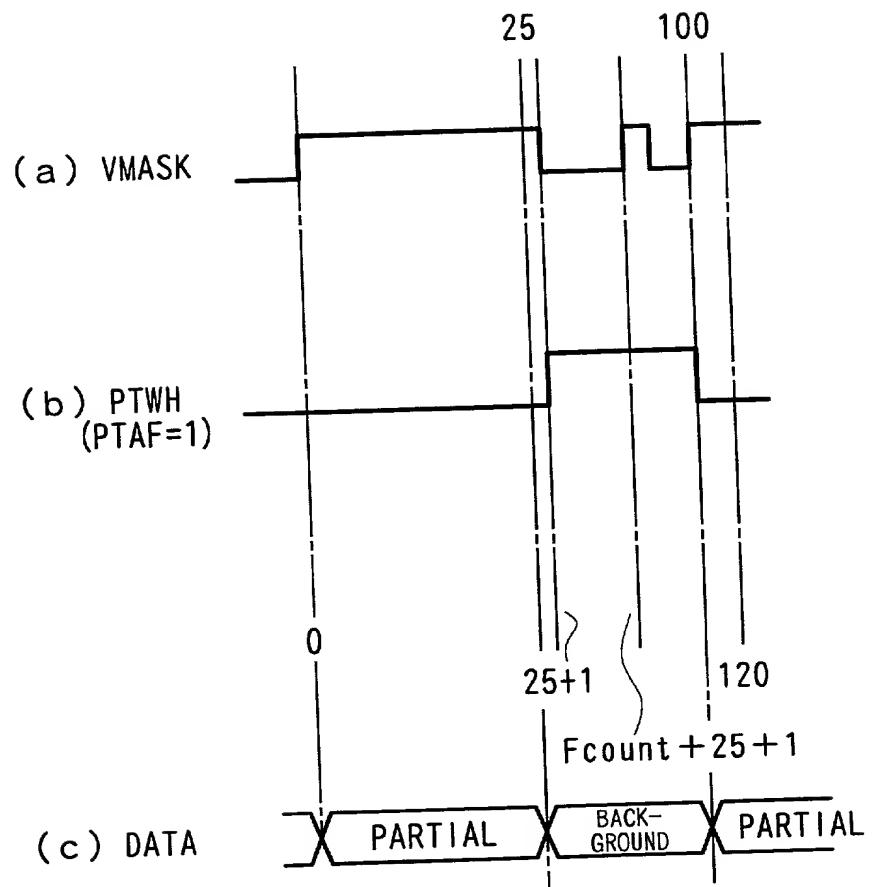


FIG. 23

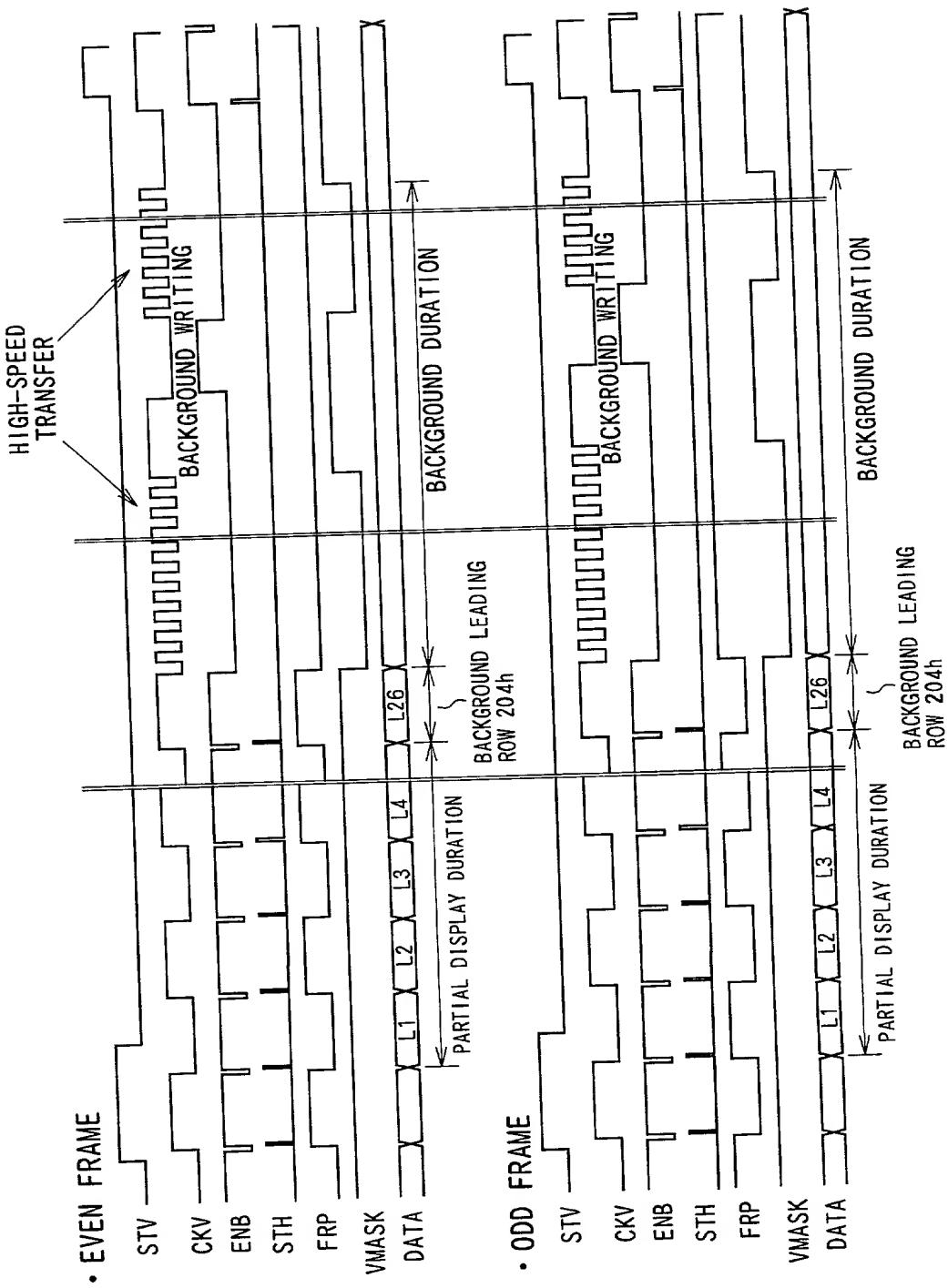


FIG. 24

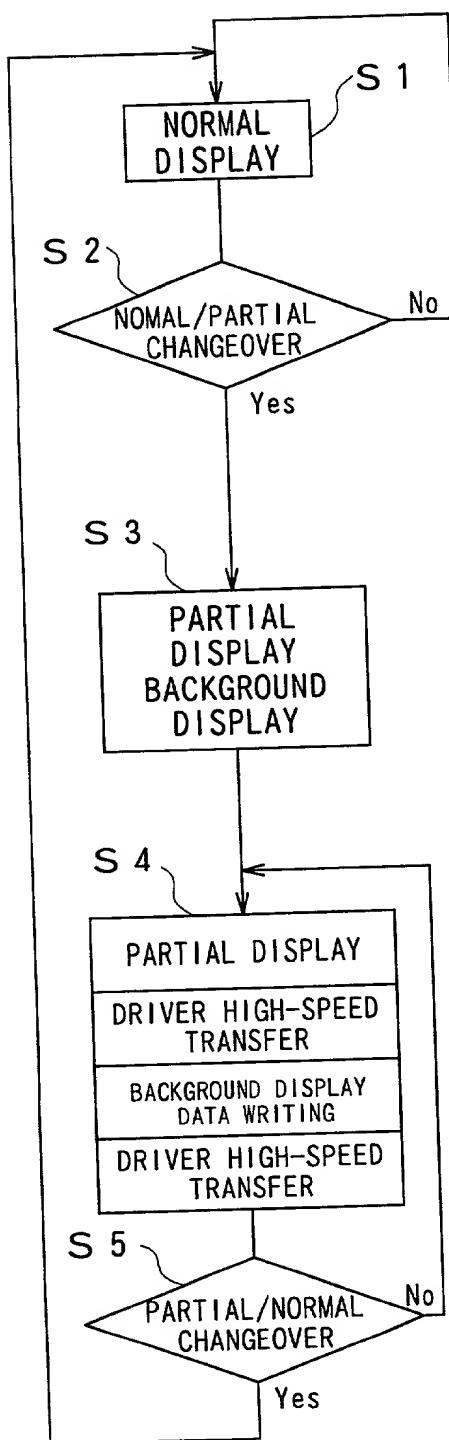


FIG. 25 (d)

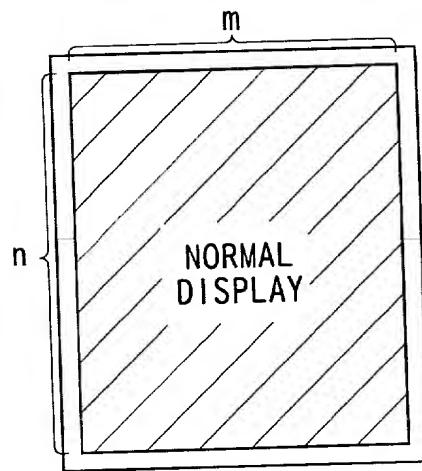


FIG. 25 (a)

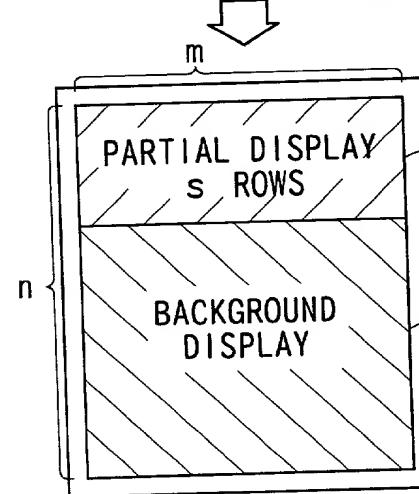


FIG. 25 (b)

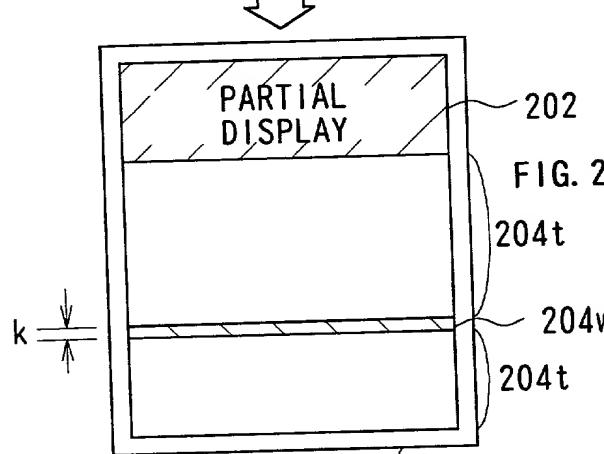


FIG. 25 (c)

200

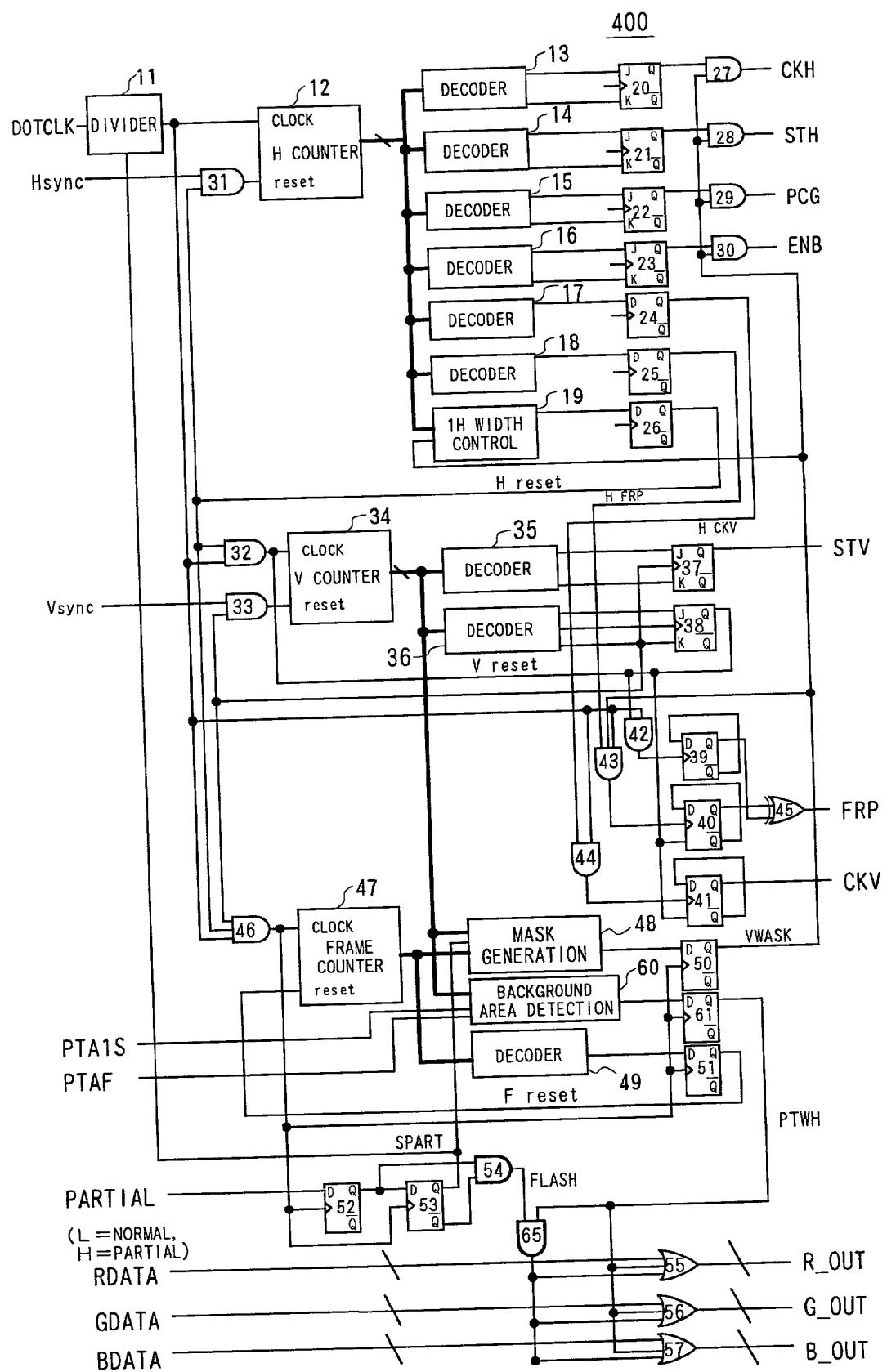


FIG. 26